

## CLAIMS

1. A wireless communication system configured from a wireless base station and a wireless communication terminal, wherein a wireless communication line is set between the wireless base station and the wireless communication terminal,

the wireless base station comprises:

a wireless base station transmission rate broadcast section that notifies the wireless communication terminal of a transmission rate that enables to be supported by the wireless base station on the wireless communication line from the wireless communication terminal to the wireless base station, and

the wireless communication terminal comprises:

a storage section that stores a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station; and

a transmission rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on a result of comparing the transmission rate notified from the wireless base station with the transmission rate stored in the storage

section.

2. A wireless communication system configured from a wireless base station and a wireless communication terminal, wherein a wireless communication line is set between the wireless base station and the wireless communication terminal,

the wireless communication terminal comprises:

a terminal transmission rate broadcast section that notifies the wireless base station of a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when the wireless base station and the wireless communication terminal exchange their mutual state information; and

a transmission rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station, and

the wireless base station comprises:

a determination section that determines whether or not the transmission rate notified from the wireless communication terminal enables to be supported; and

a determination result broadcast section that notifies the wireless communication terminal of a

determination result of the determination section,

wherein the transmission rate determination section determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result notified from the wireless base station.

3. The wireless communication system according to claim 2,

wherein the wireless communication terminal notifies the wireless base station of the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when power of the wireless communication terminal is turned on, and determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result notified from the wireless base station.

4. The wireless communication system according to claim 2 or 3,

wherein the terminal transmission rate broadcast section notifies the wireless base station of a state information request message including the transmission rate

required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station.

5 5. The wireless communication system according to any one of claims 2 to 4,

wherein the wireless communication terminal comprises a request transmission rate transmission section that retransmits a request of a transmission rate lower than the  
10 transmission rate required by the wireless communication terminal when the determination result from the wireless base station section shows that the transmission rate does not enable to be supported.

15 6. A wireless communication terminal, wherein a wireless communication line is set between a wireless base station and the wireless communication terminal, comprising:

a storage section that stores a transmission rate required by the wireless communication terminal on the  
20 wireless communication line from the wireless communication terminal to the wireless base station;

a transmission rate information acquisition section that receives a transmission rate that enables to be supported by the wireless base station on the wireless  
25 communication line from the wireless communication terminal

to the wireless base station, notified from the wireless base station;

a transmission rate comparison section that compares the transmission rate notified from the wireless base station with the transmission rate stored in the storage section; and

a transmission rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on a comparison result of the transmission rate comparison section.

7. A wireless communication terminal, wherein a wireless communication line set between a wireless base station and the wireless communication terminal, comprising:

a terminal transmission rate broadcast section that notifies the wireless base station of a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when the wireless base station and the wireless communication terminal exchange their mutual state information; and

a transmission rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal

to the wireless base station based on a determination result as to whether or not the wireless base station enables to support the transmission rate notified from the wireless communication terminal.

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8. The wireless communication terminal according to claim 7,

wherein when power of the wireless communication terminal is turned on,

10 the wireless communication terminal notifies the wireless base station of the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station, and

15 determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result notified from the wireless base station.

20 9. The wireless communication terminal according to claim 7 or 8,

wherein the terminal transmission rate broadcast section notifies the wireless base station of a state information request message including the transmission rate  
25 required by the wireless communication terminal on the

wireless communication line from the wireless communication terminal to the wireless base station.

10. The wireless communication terminal according to any  
5 one of claims 7 to 9, comprising:

a request transmission rate transmission section that retransmits a request of a transmission rate lower than the transmission rate required by the wireless communication terminal when the determination result from the wireless  
10 base station section shows that the transmission rate does not enable to be supported.

11. A wireless base station, wherein a wireless communication line is set between the wireless base station  
15 and a wireless communication terminal, for performing communications, comprising:

a wireless base station transmission rate broadcast section that notifies the wireless communication terminal of a transmission rate that enables to be supported by the  
20 wireless base station on the wireless communication line from the wireless communication terminal to the wireless base station.